Performance guarenteed

Tau Monoclonal Antibody (T46)

Product Details

Size	100 µg
Species Reactivity	Bovine, Chicken, Human, Mouse, Rabbit, Rat, Xenopus
Published Species	Rat, Fruit fly, Non-human primate, Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Туре	Antibody
Clone	T46
Conjugate	Unconjugated
Immunogen	Bovine Tau.
Form	Liquid
Concentration	0.5 mg/mL
Purification	purified
Storage buffer	PBS
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533025

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-1.0 μg/mL	27 Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:250	9 Publications
ELISA (ELISA)	0.1-0.5 µg/mL	-
Immunoprecipitation (IP)	2-5 µg	1 Publication
Immunomicroscopy (IM)	Assay-dependent	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

This antibody recognizes an epitope near the C-terminal region (404-441 aa) of human tau. It reacts with all 7 isoforms of human tau (binding-competent and binding-incompetent), A68 (an abnormal phosphorylated derivative of tau), bovine tau, and human NeuroFibrillary Tangles (NFTs).

Reactivity is independent of the state of tau phosphorylation. Some cross-reactivity with MAP2 is also observed.

This antibody is suitable for immunohistochemical staining of Bouin's-fixed or alcohol-fixed, paraffin-embedded or frozen tissue sections.

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Product Images For Tau Monoclonal Antibody (T46)



Tau Antibody (13-6400) in ICC/IF

Immunofluorescent analysis of Tau was done on 70% confluent log phase SHSY5Y cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Tau Mouse Monoclonal Antibody (Product # 13-6400) at 1:250 dilution in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Rabbit Anti-Mouse IgG Secondary Antibody (Product # A-11059) at a dilution of 1: 400 for 30 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor 594 Phalloidin (Product # A12381). Panel d is a merged image showing cytoplasmic localization. Panel e shows no primary antibody control. The images were captured at 20X magnification.

Tau Antibody (13-6400)

Antibody specificity was demonstrated by detection of differential basal expression of the target across Mouse Brain, Rat Brain, Mouse Kidney, Mouse Lung, Rat Lung owing to their inherent genetic constitution. Relative expression of Tau was observed in Mouse and Rat Brain as compared to Kidney or Lung tissues using Anti-Tau Monoclonal Antibody (T46) (Product # 13-6400) in Western Blot. {RE}



Tau Antibody (13-6400) in ICC/IF



Immunofluorescent staining of MAP2 (Green) and Tau (red) on Primary Rat Cortex neurons (E18) (Product # A1084001) cultured for 14 days in the B-27 Plus Neuronal Culture System (Product # A3653401). At day 14 the cells were fixed with 4% paraformaldehyde for 15 min, permeabilized with 0.1% Triton X-100 for 30 min, and blocked with 1% BSA for 30 min at room temperature. Cells were stained with a MAP2 rabbit polyclonal antibody (Product # PA5-17646) at a dilution of 1:250, and a Tau mouse monoclonal antibody clone T46 (Product # 13-6400) at a dilution of 1:100 in 1% BSA staining buffer, overnight at 4C, and then incubated with Alexa Fluor secondary antibodies 488 donkey anti-rabbit (Product # A-21206) and 594 donkey anti-mouse (Product # A-21203) at a dilution of 1: 1000 for 30 minutes at room temperature. Wash 3 times with DPBS. Stain with DAPI.

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44 References

Western Blot (27)

Omics : a journal of integrative biology

Okadaic Acid-Induced Alzheimer's in Rat Brain: Phytochemical Cucurbitacin E Contributes to Memory Gain by Reducing TAU Protein Accumulation.

"Published figure using Tau monoclonal antibody (Product # 13-6400) in Western Blot" Authors: Ylmaz G,Almasri S,Karabulut YY,Korkmaz M,Bucak Ö,Balc SO

The Journal of neuroscience : the official journal of the Society for Neuroscience

Blocking Site-Specific Cleavage of Human Tau Delays Progression of Disease-Related Phenotypes in Genetically Matched Tau-Transgenic Mice Modeling Frontotemporal Dementia.

"13-6400 was used in Western Blotting to demonstrate that htau transgene expression occurs primarily in the forebrain at similar levels in rT2 and rT3 mice."

Authors: Steuer EL,Kemper LJ,Hlynialuk CJW,Leinonen-Wright K,Montonye ML,Lapcinski IP,Forster CL,Ashe KH,Liu P

View more WB references on thermofisher com

Immunohistochemistry (6)

Aging cell Central role for p62/SQSTM1 in the elimination of toxic tau species in a mouse model of tauopathy. "Published figure using Tau monoclonal antibody (Product # 13-6400) in Immunohistochemistry" Authors: Ono M,Komatsu M,Ji B,Takado Y,Shimojo M,Minamihisamatsu T,Warabi E,Yanagawa T,Matsumoto G,Aoki I, Kanaan NM,Suhara T,Sahara N,Higuchi M	Year 2022
Cellular and molecular life sciences : CMLS Different pathways of molecular pathophysiology underlie cognitive and motor tauopathy phenotypes in transgenic models for Alzheimer's disease and frontotemporal lobar degeneration. "Published figure using Tau monoclonal antibody (Product # 13-6400) in Western Blot" Authors: Melis V,Zabke C,Stamer K,Magbagbeolu M,Schwab K,Marschall P,Veh RW,Bachmann S,Deiana S,Moreau PH,Davidson K,Harrington KA,Rickard JE,Horsley D,Garman R,Mazurkiewicz M,Niewiadomska G,Wischik CM, Harrington CR,Riedel G,Theuring F	Year 2015

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More applications with references on thermofisher.com

ICC/IF (9) IP (1) Misc (1)

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Year 2023

Year 2022

> Species Mouse

Dilution 1:10,000